AUTHOR INDEX TO VOLUME 14

Alexandrovitz, A., 275
Al-Gobaisi, D. M. K., 95

Badr, M. A. L., 261
Bajpai, A. C., 95
Bandyopadhayay, G., 111
Beck, J. A., 127
Berg, G. J., 329
Bose, S. K., 413

Cathey, J. J., 33
Chang, H.-C., 231
Chen, C., 83, 249

Dash, P. K., 163, 179
Dias, L. G., 317
Ding, F., 137

Eldhemy, J. A., 377, 397
El-Hawary, M. E., 295, 317
El-Kharashi, A. K., 261
Elrazaz, Z., 433

Filippetti, F., 61

Ghosh, K. K., 213

Hamdan, H. M. A., 445
Hanmandlu, M., 45
Hellal, A., 1

Islam, K. K., 413

Jan, S. H., 33

Kadete, H., 353
Khalifa, F. A., 261
Khincha, H. P., 163, 179
Kothari, A. G., 363
Kothari, D. P., 339

Martelli, M., 61
Mohan, G., 17

Nanda, J., 339
Nasar, S. A., 83, 249

Ool, B.-T., 1
Orlowska-Kowalska, T., 151
Osheiba, A. M., 195

Padiyar, K. R., 213, 363
Pai, R. M., 127
Pan, C.-T., 231
Panigrahi, A. K., 179
Pejšek, Z., 73
Podzimek, O., 73
Prabhu, S. S., 111

Rabiee, M., 33
Rahman, M. A., 195

AUTHOR INDEX TO VOLUME 14

Alexandrovitz, A., 275
Al-Gobaisi, D. M. K., 95

Badr, M. A. L., 261
Bajpai, A. C., 95
Bandyopadhayay, G., 111
Beck, J. A., 127
Berg, G. J., 329
Bose, S. K., 413

Cathey, J. J., 33
Chang, H.-C., 231
Chen, C., 83, 249

Dash, P. K., 163, 179
Dias, L. G., 317
Ding, F., 137

Eldhemy, J. A., 377, 397
El-Hawary, M. E., 295, 317
El-Kharashi, A. K., 261
Elrazaz, Z., 433

Filippetti, F., 61

Ghosh, K. K., 213

Hamdan, H. M. A., 445
Hanmandlu, M., 45
Hellal, A., 1

Islam, K. K., 413

Jan, S. H., 33

Kadete, H., 353
Khalifa, F. A., 261
Khincha, H. P., 163, 179
Kothari, A. G., 363
Kothari, D. P., 339

Martelli, M., 61
Mohan, G., 17

Nanda, J., 339
Nasar, S. A., 83, 249

Ool, B.-T., 1
Orlowska-Kowalska, T., 151
Osheiba, A. M., 195

Padiyar, K. R., 213, 363
Pai, R. M., 127
Pan, C.-T., 231
Panigrahi, A. K., 179
Pejšek, Z., 73
Podzimek, O., 73
Prabhu, S. S., 111

Rabiee, M., 33
Rahman, M. A., 195

Ravindranath, K. M., 295
Roubíček, O., 73

Sharaf, T. A. M., 179, 329
Singh, B., 17
Singh, L. P., 413
Singh, P. N. P., 95
Srivastava, S. C., 339
Srivastava, S. P., 17
Suryanarayana, N. V., 45

Tassoni, C., 61
Trutt, F. C., 137

Zuckerberger, A., 275

SUBJECT INDEX TO VOLUME 14

Adaptive power system stabilizers, new approach to, 111
Automatic generation control using singular perturbation approach, 45

Computer based power system measurements for relaying, new algorithms for, 179
Computer relaying for power transmission lines, new algorithms for, 163
CSIM drive operating under slip frequency strategy, controller design for, 275

Dynamic stability limits, extension of: static var compensation versus excitation control, 445

Economic dispatch in electric power systems, comparative analysis of optimization techniques for, 95
EHV/UHV transmission line, digital protection of based upon travelling wave phenomena, 413
Electric linear drives intended for technological applications, progress in the development of, 73
Electric power system static load model parameter estimation using Newton's method, 317

Fast-state observer for current-fed induction motor, dynamical properties of, 151
Frequency spectra of electromagnetic vibration for wound-rotor induction machines with winding faults, calculation of, 137

HVDC link with static var compensators in weak ac systems, analytical study of, 1
HVDC-torsional interactions, study of through digital dynamic simulation, 363
Hydro-thermal optimal power flow problem in rectangular coordinates, 295

Induction motors, start-up torque limitation of by asymmetrical starting connections, 61
Interconnected hydrothermal power system, novel approach for limit cycle analysis of, 231

Line-start permanent magnet motors, parameter sensitivity analysis for, 195
Low-speed linear induction motors, analysis of with narrow secondaries, 127

New structure preserving energy function incorporating transmission line resistances, 213
Novel second order fast decoupled load flow method in polar coordinates, 339

Polyphase reluctance motors, improvements in the design for optimum steady state performance of, 17

Power conditioned drives, application of calorimetry in efficiency determination of, 33
Power system stabilizers and inductive compensation application to Saudi SCECO power system, investigation of, 433
Probabilistic voltage assessment and VAR compensation, 329

Simplified transfer function model for generators, 353
Space harmonic interactions in squirrel cage induction machines, analysis of:
modeling and equivalent circuit, 377
torque analysis, 397
Synchronous generator unit, influence of self-tuning control techniques on dynamics of, 261

Tabular PM linear alternator, inductance and leakage field of, 83
Tubular permanent magnet linear alternator, optimal design of, 249

CONTENTS OF VOLUME 14

NUMBER 1

Analytical Study of HVDC Link with Static VAR Compensators in Weak AC Systems 1 — B.-T. Ooi, A. Hellal

Improvements in the Design for Optimum Steady State Performance of Polyphase Reluctance Motors 17 — B. Singh, S. P. Srivastava, G. Mohan

Application of Calorimetry in Efficiency Determination of Power Conditioned Drives 33 — J. J. Cathey, M. Rabiee, S. H. Jan

Automatic Generation Control Using Singular Perturbation Approach 45 — N. V. Suryanarayana, M. Hanmandlu

Start-up Torque Limitation of Induction Motors by Asymmetrical Starting Connections 61 — F. Filippetti, M. Martelli, C. Tassoni

NUMBER 2

Progress in the Development of Electric Linear Drives Intended for Technological Applications 73 — O. Roubíček, Z. Pejšek, O. Podzimek

Inductance and the Leakage Field of a Tabular PM Linear Alternator 83 — S. A. Nasar, C. Chen

A Comparative Analysis of Optimization Techniques for Economic Dispatch in Electric Power Systems 95 — D. M. K. Al-Gobaisi, A. C. Bajpai, P. N. P. Singh

A New Approach to Adaptive Power System Stabilizers 111 — G. Bandyopadhayay, S. S. Prabhu

Analysis of Low-Speed Linear Induction Motors with Narrow Secondaries 127 — R. M. Pai, J. A. Beck

NUMBERS 3–4

Calculation of Frequency Spectra of Electromagnetic Vibration for Wound-Rotor Induction Machines with Winding Faults **137**	**F. Ding** **F. C. Trutt**
Dynamical Properties of Fast State Observer for Current-Fed Induction Motor **151**	**T. Orlowska-Kowalska**
New Algorithms for Computer Relaying for Power Transmission Lines **163**	**P. K. Dash** **H. P. Khincha**
New Algorithms for Computer Based Power System Measurements for Relaying **179**	**P. K. Dash** **A. K. Panigrahi** **H. P. Khincha** **A. M. Sharaf**
Parameter Sensitivity Analysis for Line-Start Permanent Magnet Motors **195**	**M. A. Rahman** **A. M. Osheiba**
A New Structure Preserving Energy Function Incorporating Transmission Line Resistances **213**	**K. R. Padiyar** **K. K. Ghosh**
A Novel Approach for Limit Cycle Analysis of an Interconnected Hydrothermal Power System **231**	**C.-T. Pan** **H.-C. Chang**
Optimal Design of a Tubular Permanent Magnet Linear Alternator **249**	**S. A. Nasar** **C. Chen**
Influence of Self-Tuning Control Techniques on the Dynamics of a Synchronous Generator Unit **261**	**A. K. El-Kharashi** **F. A. Khalifa** **M. A. L. Badr**
Controller Design for CSIM Drive Operating under Slip Frequency Strategy **275**	**A. Zuckerberger** **A. Alexandrovitz**

NUMBER 5

The Hydro-Thermal Optimal Power Flow Problem in Rectangular Coordinates **295**	**K. M. Ravindranath** **M. E. El-Hawary**
Electric Power System Static Load Model Parameter Estimation Using Newton's Method **317**	**L. G. Dias** **M. E. El-Hawary**

Probabilistic Voltage Assessment and VAR Compensation **329** — T. A. M. Sharaf, G. J. Berg

A Novel Second Order Fast Decoupled Load Flow Method in Polar Coordinates **339** — J. Nanda, D. P. Kothari, S. C. Srivastava

Simplified Transfer Function Model for Generators **353** — H. Kadete

Study of the HVDC-Torsional Interactions through Digital Dynamic Simulation **363** — K. R. Padiyar, A. G. Kothari

NUMBER 6

Analysis of Space Harmonic Interactions in Squirrel Cage Induction Machines—Part I: Modeling and the Equivalent Circuit **377** — S. A. Eldhemy

Analysis of Space Harmonic Interactions in Squirrel Cage Induction Machines—Part II: The Torque Analysis **397** — S. A. Eldhemy

Digital Protection of EHV/UHV Transmission Line Based upon Travelling Wave Phenomena **413** — K. K. Islam, S. K. Bose, L. P. Singh

Investigation of Power System Stabilizers and Inductive Compensation Application to the Saudi SCECO Power System **433** — Z. Elrazaz

Extension of Dynamic Stability Limits: Static VAR Compensation versus Excitation Control **445** — H. M. A. Hamdan

FOLLOWING PAGE 458
Title Page to Volume 14
Contents of Volume 14
Author Index to Volume 14
Subject Index to Volume 14